

## Intensity Modulated Radiation Therapy Clinical Evidence And Techniques

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### Intensity Modulated Radiation Therapy Clinical

Intensity-modulated radiation therapy (IMRT) is an advanced type of radiation therapy used to treat cancer and noncancerous tumors. IMRT uses advanced technology to manipulate photon and proton beams of radiation to conform to the shape of a tumor. IMRT uses multiple small photon or proton beams of varying intensities to precisely irradiate a tumor.

### Intensity-modulated radiation therapy (IMRT) - Mayo Clinic

Intensity Modulated Radiation Therapy. Advances in a clinical field like radiation oncology may emphasize either improvements in tumor control or decreases in normal tissue side effects, or both. For decades, radiation oncologists attempted to increase tumor control by expanding the treatment fields and including more and more tissue in the irradiated area.

### Intensity Modulated Radiation Therapy - Cleveland Clinic

However, the combined rates of acute grade 1 and 2 rectal toxicities and the risk of late grade 2 rectal bleeding were significantly lower in the IMRT patients. The 2-year actuarial risk of grade 2 bleeding was 2% for IMRT and 10% for conventional 3D-CRT (P<0.001).

### Clinical experience with intensity modulated radiation ...

Intensity-modulated radiation therapy, also known as tomotherapy, is a type of stereotactic radiosurgery that delivers a highly conformal, 3D distribution of radiation doses. IMRT uses computer-controlled linear accelerators to deliver precise radiation doses to specific areas within a tumor.

### Intensity Modulated Radiation Therapy - Medical Clinical ...

Abstract. Purpose Although intensity-modulated radiation therapy (IMRT) is increasingly used to treat locally advanced non-small-cell lung cancer (NSCLC), IMRT and three-dimensional conformal external beam radiation therapy (3D-CRT) have not been compared prospectively. This study compares 3D-CRT and IMRT outcomes for locally advanced NSCLC in a large prospective clinical trial.

### Impact of Intensity-Modulated Radiation Therapy Technique ...

An important technique for the clinical use of intensity-modulated radiation therapy is image-guided radiation therapy. The clinical benefit for prostate image-guided radiation therapy has been assessed by comparing the outcomes of patients with either the image-guided radiation therapy or non-image-guided radiation therapy technique.

### Current status of intensity-modulated radiation therapy ...

The primary objective of the study is to identify the highest dose of gemcitabine that can be given safely with cisplatin and pelvic intensity modulated radiation therapy (IMRT) in women with locally advanced cervical cancer.

### Intensity Modulated Radiation Therapy With Cisplatin and ...

Background. The comparative risks of a second cancer diagnosis are uncertain after primary cancer treatment with 3-dimensional conformal radiotherapy (3DCRT), intensity-modulated radiotherapy (IMRT), or proton beam radiotherapy (PBRT).

### Second cancer risk after primary cancer treatment with ...

Completion of all fractions of intensity-modulated radiation therapy (IMRT) total body irradiation (TBI) (volume modulated arc therapy or tomotherapy) [ Time Frame: Up to 1 year post transplant ] Will be summarized using percentage and its 95% confidence interval.

### TBI Using IMRT (VMAT or Tomotherapy) for the Prevention of ...

A Phase II Study of Concurrent Chemoradiotherapy Using Three-Dimensional Conformal Radiotherapy (3D-CRT) or Intensity-Modulated Radiation Therapy (IMRT) + Bevacizumab (BV) for Locally or Regionally Advanced Nasopharyngeal Cancer

### Bevacizumab, Cisplatin, Radiation Therapy, and ...

Number of Participants With Any Grade 2 Toxicity Using Intensity Modulated Radiation Therapy (IMRT) to Treat the At-risk Lymph Nodes in Prostate Cancer (up to First 10 Patients) [ Time Frame: At one week, one month, 2 months, 3 months, 6 months, 9 months, 1 year, 18 months, 2 years, 30 months, and 3 years after radiation therapy ]

### Intensity Modulated Radiation Therapy for Prostate Cancer ...

Deep inspiration breath-hold intensity modulated radiation therapy in a large clinical series of 239 left-sided breast cancer patients: a dosimetric analysis of organs at risk doses and clinical feasibility from a single center experience.

### Deep inspiration breath-hold intensity modulated radiation ...

Radiation: Intensity modulated radiation therapy The gross tumor and lymph node metastasis, Planning Target Volume (PTV) 70 (Clinical Target Volume [CTV] 70 with a 5 mm margin) will receive 70 Gy in 33 fractions at 2.12 Gy per fraction.

### Radiation Therapy With or Without Chemotherapy in Reducing ...

Varian linear accelerator delivering dual-energy photon and electron therapy. The accelerator is equipped with a 120-leaf multileaf collimator with the capability of 3-D conformal radiation therapy, intensity-modulated radiation therapy (IMRT) and image-guided radiation therapy (IGRT). Click here to learn more about IGRT. GE Lightspeed Plus CT

### Radiation Oncology Center | Cancer Care in Fremont

Purpose: To assess the dosimetric benefit, treatment outcome, and toxicity of high-dose and extended-field intensity modulated radiation therapy (IMRT) in patients with early-stage NK/T-cell lymphoma of Waldeyer's ring (WR-NKTCL).

### High-dose and extended-field intensity modulated radiation ...

The use of intensity-modulated radiation therapy (IMRT) has the potential to reduce acute and chronic treatment-related toxicity, minimize treatment breaks due to excessive grade 3/4 skin toxicity (notably in skin outside of the immediate perianal region) and bowel toxicity, while potentially improving disease-related outcomes by permitting radiation dose escalation in selected cases (because radiation toxicity to the bowel is avoided).

### Intensity-Modulated Radiation Therapy for Anal Cancer ...

D5 to the gross tumor volume and clinical target volume was higher with IMPT than with intensity modulated radiation therapy or PSPT (P<.05). All cases were analyzed for beam-angle-specific motion, water-equivalent thickness, and robustness.

### Clinical implementation of intensity modulated proton ...

Clinical phase I/II trial to investigate preoperative dose-escalated intensity-modulated radiation therapy (IMRT) and intraoperative radiation therapy (IORT) in patients with retroperitoneal soft tissue sarcoma: interim analysis. BMC Cancer. 2014 Aug 27;14:617. doi: 10.1186/1471-2407-14-617.